

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-20 (Canceled).

Claim 21 (Currently Amended): A rotation member applied to and rotating in a housing, the rotation member comprising:

engaging portions formed on a cylindrical side surface around a circumference of the rotation member, the engaging portions being rotatably supported by the housing and rotating relative to the housing; and

a coating covering the engaging ~~portion~~ portions and including a mixture of one or more wear-resistant materials selected from the group consisting of Si, cubic BN, TiC, WC, SiC, Cr<sub>3</sub>C<sub>2</sub>, ZrO<sub>2</sub>-Y and TiB, and one or more solid lubricants selected from the group consisting of hexagonal BN, Cr<sub>2</sub>O<sub>3</sub>, WS<sub>2</sub> and BaZrO<sub>4</sub>, the coating being deposited from a tool electrode including the wear-resistant materials and the solid lubricant by processing the engaging ~~portion~~ portions as a workpiece with electric spark machining.

Claim 22 (Canceled).

Claim 23 (Previously Presented): The rotation member of claim 21, wherein the coating consists essentially of one or more wear-resistant materials selected from the group consisting of Si, cubic BN, TiC, WC, SiC, Cr<sub>3</sub>C<sub>2</sub>, ZrO<sub>2</sub>-Y and TiB and one or more solid lubricants selected from the group consisting of hexagonal BN, Cr<sub>2</sub>O<sub>3</sub>, WS<sub>2</sub> and BaZrO<sub>4</sub>.

Claim 24 (Previously Presented): The rotation member of claim 21, wherein the electric spark machining is carried out with rotating the rotation member.

Claim 25 (Currently Amended): The rotation member of claim 21, wherein ~~the engaging portion includes a groove~~ grooves configured to pool a lubrication liquid are formed concentrically around the engaging portions.

Claim 26 (Currently Amended): A housing for rotatably supporting a rotation member, the housing comprising:

the rotation member;

a supporting portion configured to rotatably support the rotation member, the rotation member rotating relative to the housing; and

a coating covering a bearing of the supporting portion into which the rotation member is inserted, the coating including a mixture of one or more wear-resistant materials selected from the group consisting of Si, cubic BN, TiC, WC, SiC, Cr<sub>3</sub>C<sub>2</sub>, ZrO<sub>2</sub>-Y and TiB, and one or more solid lubricants selected from the group consisting of hexagonal BN, Cr<sub>2</sub>O<sub>3</sub>, WS<sub>2</sub> and BaZrO<sub>4</sub>, the coating being deposited from a tool electrode including the wear-resistant ~~material~~ materials and the solid lubricants by processing the bearing as a workpiece with electric spark machining.

Claim 27 (Canceled).

Claim 28 (Previously Presented): The housing of claim 26, wherein the coating consists essentially of one or more wear-resistant materials selected from the group consisting of Si, cubic BN, TiC, WC, SiC, Cr<sub>3</sub>C<sub>2</sub>, ZrO<sub>2</sub>-Y and TiB and one or more solid lubricants selected from the group consisting of hexagonal BN, Cr<sub>2</sub>O<sub>3</sub>, WS<sub>2</sub> and BaZrO<sub>4</sub>.

Claim 29 (Previously Presented): The housing of claim 26, wherein the bearing includes a groove configured to pool a lubrication liquid.

Claim 30 (Previously Presented): A gear box comprising of the rotation member of claim 21.

Claim 31 (Previously Presented): A gear box comprising the housing of claim 26.

Claim 32 (Previously Presented): A shaft structure of variable vanes for regulating a fluid, comprising the rotation member of claim 21.

Claim 33 (Previously Presented): A shaft structure of variable vanes for regulating a fluid, comprising the housing of claim 26.

Claims 34-44 (Canceled).

Claim 45 (New): The housing of claim 26, further comprising a bush disposed in the supporting portion and surrounding each of the engaging portions, the bush being formed of a different material than a remainder of the housing.

Claim 46 (New): The rotation member of claim 21, wherein the engaging portions are respectively formed on longitudinal ends of the rotation member.

Claim 47 (New): The housing of claim 26, wherein the supporting portion is configured to rotatably support each longitudinal end of the rotation member.